

assimilation. Mixtures of equal parts of NaCl and KCl and low concentrations of sodium azide and 2,4-dinitrophenol, respectively, were found to exert a pronounced inhibitory effect on the assimilatory process.

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FALLER, INGA L., PETTY, DAVID (Associate in Surgery), LAST, JULES H., PASCALE, LUKE R., and BOND, E. E.: A Comparison of the Deuterium Oxide and Antipyrine Dilution Methods for Measuring Total Body Water in Normal and Hydropic Human Subjects. *J. of Lab. and Clin. Med.* 45:748-758, 1955.

The deuterium oxide and antipyrine spaces were studied in a large group of adult males. It was found that the deuterium oxide spaces were consistently larger and significantly larger than the antipyrine spaces. It was found that deuterium oxide could be used to measure total body water by oral or intravenous administration with equally reliable results.

In edematous subjects deuterium oxide was found to equilibrate in all body fluids so that it could be used to determine total body water in such subjects. Antipyrine, on the other hand, often failed to equilibrate within twenty-four hours, and it was concluded that its dilution was

not a reliable measure of total body water in edematous states.

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FALLER, INGA L., BOND, E. E., PETTY, DAVID (Associate in Surgery), and PASCALE, LUKE R.: The Use of Urinary Deuterium Oxide Concentrations in a Simple Method for Measuring Total Body Water. *J. of Lab. and Clin. Med.* 45:759-764, 1955.

An accurate method for the recovery of urinary deuterium oxide is presented. The total body water in liters was determined by dividing the actual weight of deuterium oxide administered (grams) by the grams of deuterium oxide per liter. The total body waters of thirteen normal male subjects obtained from simultaneous blood serum and urinary deuterium oxide determinations were identical.

There is no difference in the values obtained from urine samples (obtained from three and five hours). The deuterium oxide lost during the period of equilibration is negligible. Equilibration times of deuterium oxide among the various body fluids in edematous subjects are long, and in such subjects the measurement of total body water required many hours with minimum fluid intake, and many samples for analysis.

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